

Summary of Monitoring and Control for the Mosquito Program for the Week ending August 7, 2015

West Nile Virus (WNV) in and Around Boulder County

Results from last week's mosquito samples were reported yesterday and *Culex* collected from Tom Watson Park tested positive. The risk for human transmission in Boulder is only slightly elevated, due to overall extremely low mosquito activity and only one *Culex* sample testing positive. All three monitoring zones in Boulder County had similar risk estimates last week. The city's results from this week are still pending; Longmont mosquito samples tested negative this week and Zone 3 (Louisville/Lafayette/Superior) has a slightly elevated risk level.

Mosquito samples have also tested positive from Adams, Delta, Denver, Jefferson, Larimer, Mesa, Pueblo and Weld Counties. Three human cases have been confirmed by public health officials in Colorado. They occurred in Mesa, Larimer and Pueblo Counties. At this point last season, seven cases had been confirmed.

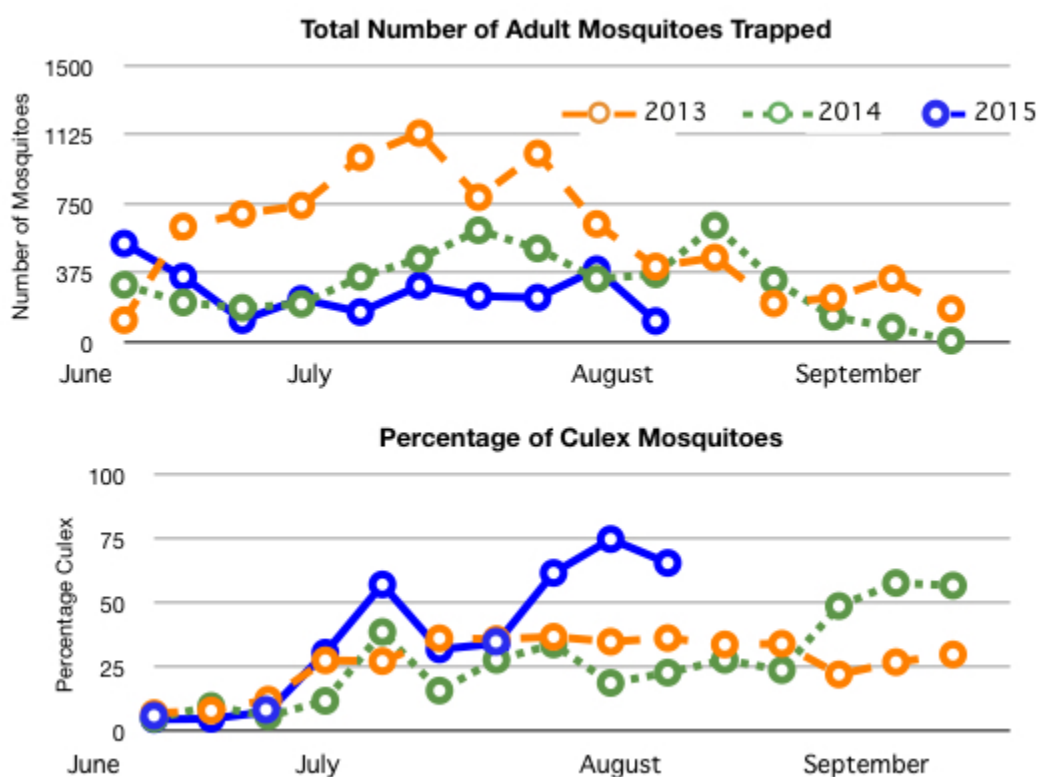
Mosquito activity around the city is very low, particularly nuisance mosquito activity. This may give people a sense of complacency, but it is strongly recommended that everyone continue to take precautions to avoid mosquito bites, since WNV has been consistently detected around Boulder County for the last few weeks. *Culex* numbers can increase rapidly in hot weather and can thrive in urban environments, so residents need to ensure that standing water is drained to prevent mosquito breeding. More information is available about prevention of WNV at the [Fight the Bite website](#).

Adult Mosquito Trap Numbers

Adult mosquitoes are monitored from a grid of 16 traps located throughout the city. The mosquitoes are sorted and identified to species. *Culex* species from designated sentinel traps are sent to the Colorado Department of Public Health and Environment to be tested for the presence of WNV. The following table shows the results from surveillance traps.

Date	Total Mosquitoes	Number of <i>Culex</i> Mosquitoes	Percent <i>Culex</i> Mosquitoes	WNV Testing Results
June 2	541	26	4.8%	Not yet testing
June 9	361	20	5.5%	Negative
June 16	125	14	7.8%	Negative
June 23	240	74	30.8%	Negative
June 30	169	97	57.4%	Negative
July 7	312	100	32.1%	Negative
July 14	256	88	34.4%	Positive
July 21	247	153	61.9%	Negative
July 28	401	301	75.1%	Positive
August 4	120	79	65.8%	Results pending

Weekly mosquito trap results will be charted throughout the season and the results from the previous two years will be included for comparison.



Nuisance Mosquito Program

Nuisance mosquito abundance and species composition can be compiled from 12 of the 16 WNV surveillance traps (four traps are specific for *Culex* mosquitoes), providing information about nuisance mosquito activity throughout the city. Two additional traps are placed in areas with high nuisance mosquito activity. These are located at the East Boulder Recreation Center and the Thorne Institute at the east side of Sombrero Marsh. “Floating” traps may also be set up to monitor areas of high mosquito activity. One is currently installed at the Greenbelt Meadows neighborhood.

The table below shows the adult nuisance mosquito counts in the three traps that are used for additional monitoring of nuisance mosquitoes, as well as the top five nuisance mosquito counts in WNV surveillance traps throughout the city.

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
East Boulder Community Center*	36 (0)*

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
Greenbelt Meadows*	32 (1)*
Rolling Rock Ranch	28 (0)
Stazio Ball Fields	6 (16)
Sombrero Marsh	3 (19)
Tom Watson Park	3 (3)
South Boulder Recreation Center	1 (4)
Thorne Institute*	1 (5)*

* Trap is from nuisance mosquito control program

Mosquito Larval Control Treatments

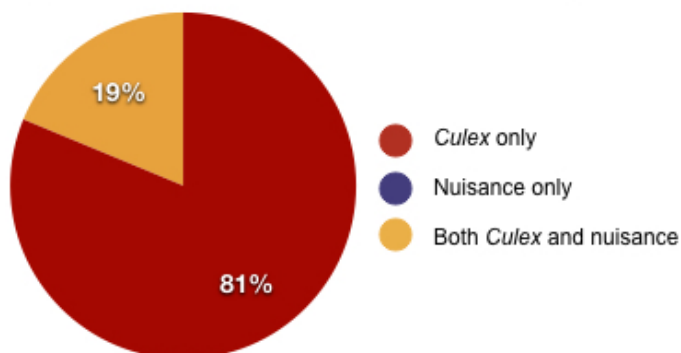
A total of 373 site inspections occurred and 18 were treated.

Sites treated with *Culex*-only larvae: 13

Sites treated with nuisance-only larvae: 5

Sites treated with both *Culex* with nuisance larvae: 3

Percentage of sites treated for *Culex* and nuisance mosquitoes



If you have any questions, please contact Rella Abernathy at 303-441-1901.